National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 14th July 2022

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
   Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
   Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
   Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 13.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जुलाई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 13th July 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **14-Jul-2022**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	67834	48458	39337	25153	3270	184052
Peak Shortage (MW)	70	0	0	509	9	588
Energy Met (MU)	1598	1093	861	555	66	4173
Hydro Gen (MU)	356	31	113	116	32	648
Wind Gen (MU)	11	149	288	-	-	448
Solar Gen (MU)*	104.44	31.23	58.69	4.53	0.79	200
Energy Shortage (MU)	5.99	0.00	0.00	3.99	0.01	9.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72428	48508	39943	25688	3281	184181
Time Of Maximum Demand Met (From NLDC SCADA)	22:56	19:35	09:41	22:45	19:23	19:50

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.028	0.00	0.47	4.35	4.83	80.06	15.11

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	13756	0	311.4	188.0	-1.1	77	0.00
	Haryana	10826	0	234.5	161.6	1.6	308	0.00
	Rajasthan	11203	0	250.0	73.3	0.2	397	0.00
	Delhi	6257	0	128.4	117.0	-0.7	242	0.00
	UP	25481	190	533.4	259.3	3.8	541	3.57
	Uttarakhand	2157	0	48.0	29.1	0.9	159	2.42
	HP	1579	0	32.7	-5.1	-1.3	21	0.00
	J&K(UT) & Ladakh(UT)	2129	0	52.9	30.2	-2.8	179	0.00
	Chandigarh	336	0	6.9	6.9	-0.1	21	0.00
WR	Chhattisgarh	4083	0	96.5	39.1	0.0	185	0.00
	Gujarat	13954	0	311.1	168.3	-1.2	666	0.00
	MP	9457	0	212.8	105.3	0.0	499	0.00
	Maharashtra	19346	0	416.4	116.4	-2.3	692	0.00
	Goa	570	0	11.7	11.7	-0.1	40	0.00
	DNHDDPDCL	1176	0	26.9	26.8	0.1	110	0.00
	AMNSIL	870	0	17.9	12.1	-0.4	265	0.00
SR	Andhra Pradesh	7739	0	166.4	2.5	0.5	419	0.00
	Telangana	6530	0	125.0	51.6	-0.6	459	0.00
	Karnataka	8103	0	156.1	19.0	-2.0	407	0.00
	Kerala	3326	0	67.6	38.0	-0.5	196	0.00
	Tamil Nadu	15259	0	336.5	120.0	-1.7	554	0.00
	Puducherry	433	0	9.5	9.2	-0.3	33	0.00
ER	Bihar	6601	0	137.1	125.7	0.2	426	3.31
	DVC	3594	0	76.6	-37.5	0.1	329	0.00
	Jharkhand	1594	0	33.9	25.5	-0.1	158	0.68
	Odisha	5282	0	117.4	51.4	-1.4	341	0.00
	West Bengal	9204	0	188.4	73.1	1.2	340	0.00
	Sikkim	93	0	1.5	1.6	-0.1	15	0.00
NER	Arunachal Pradesh	152	0	2.7	2.7	-0.3	25	0.00
	Assam	2181	0	44.2	35.5	0.3	155	0.00
	Manipur	200	0	2.8	2.8	0.0	23	0.00
	Meghalaya	335	0	6.0	0.7	-0.2	147	0.00
	Mizoram	98	0	1.7	1.4	-0.2	13	0.00
	Nagaland	151	0	2.7	2.4	-0.1	29	0.00
	Tripura	282	9	5.6	6.1	0.4	63	0.01

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	32.9	5.3	-13.7
Day Peak (MW)	1732.0	278.2	-580.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	334.1	-176.8	-44.4	-107.0	-5.9	0.0
Actual(MU)	343.8	-169.1	-75.5	-96.9	-6.9	-4.7
O/D/U/D(MU)	9.6	7.7	-31.1	10.1	-1.1	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3835	15581	8908	1895	275	30494	42
State Sector	7420	17614	14335	2420	281	42069	58
Total	11255	33194	23243	4315	556	72562	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	747	1060	340	570	16	2733	63
Lignite	27	5	55	0	0	86	2
Hydro	359	31	113	116	32	651	15
Nuclear	29	12	68	0	0	109	3
Gas, Naptha & Diesel	21	4	9	0	29	63	1
RES (Wind, Solar, Biomass & Others)	135	180	377	5	1	698	16
Total	1319	1292	961	690	78	4340	100

Share of RES in total generation (%)	10.27	13.95	39.26	0.66	1.01	16.09
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.72	17.29	58.05	17.41	42.26	33.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.055

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 14-Jul-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1402	0.0	34.5	-34.5
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	522	383	0.5	0.0	0.5
4	765 kV	SASARAM-FATEHPUR	1	109	308	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	765	0.0	12.5	-12.5
6	400 kV	PUSAULI-VARANASI	1	44	53	0.0	0.2	-0.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	102	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	853	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	2	0	588	0.0	8.6	-8.6
10	400 kV	NAUBATPUR-BALIA	2	0	622	0.0	9.0	-9.0
11	400 kV	BIHARSHARIFF-BALIA	2	71	395	0.0	4.3	-4.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	493	0.0	7.1	-7.1
13	400 kV	BIHARSHARIFF-VARANASI	2	174	264	0.0	1.2	-1.2
14	220 kV	SAHUPURI-KARAMNASA	1	1	161	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.9	97.4	-96.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	1.7	0.0	1.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1508	43	23.0	0.0	23.0
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.4	-3.4
5	400 kV	RANCHI-SIPAT	2	288	92	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	1	114	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	150	36	1.3	0.0	1.3
					ER-WR	28.3	8.2	20.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.5	0.0	14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1193	0.0	28.9	-28.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2614	0.0	41.7	-41.7
4	400 kV	TALCHER-I/C	2	729	0	15.7	0.0	15.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.5	70.6	-56.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	435	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	143	265	0.0	1.5	-1.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	91	0.0	1.2	-1.2
					ER-NER	0.0	9.2	-9.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	17.2	-17.2
					NER-NR	0.0	17.2	-17.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4519	0.0	81.4	-81.4
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1819	0.0	35.4	-35.4
4	765 kV	GWALIOR-AGRA	2	95	2078	0.0	29.8	-29.8
5	765 kV	GWALIOR-PHAGI	2	80	1931	0.0	20.9	-20.8
6	765 kV	JABALPUR-ORAI	2	0	1113	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	562	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	1141	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1143	0	11.0	0.0	11.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3637	0.0	70.0	-70.0
11	400 kV	ZERDA-KANKROLI	1	288	4	2.9	0.0	2.9
12	400 kV	ZERDA -BHINMAL	1	515	45	5.5	0.0	5.5
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	351	688	1.4	5.2	-3.8
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	45	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	64	11	1.2	0.0	1.2
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	65.3	297.8	-232.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2871	0	57.4	0.0	57.4
3	765 kV	SOLAPUR-RAICHUR	2	1310	1188	7.1	6.2	0.9
4	765 kV	WARDHA-NIZAMABAD	2	2	2161	0.0	28.6	-28.6
5	400 kV	KOLHAPUR-KUDGI	2	1449	0	27.8	0.0	27.8
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	112	2.0	0.0	2.0
					WR-SR	118.4	34.8	83.6

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	494	0	450	10.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1092	0	868	20.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	118	0	95	2.3
	NER	132kV GELEPHU-SALAKATI	9	2	6	0.2
	NER	132kV MOTANGA-RANGIA	47	25	38	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-55	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	-8	-2	-7	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	358	181	285	6.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-498	-496	-497	-11.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-82	0	-75	-1.8